

# Anatolii F Kravets

## List of Publications by Year in descending order

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62  
papers

839  
citations

516710

16  
h-index

526287

27  
g-index

62  
all docs

62  
docs citations

62  
times ranked

749  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonic blackbody: Strong absorption of light by metal nanoparticles embedded in a dielectric matrix. <i>Physical Review B</i> , 2010, 81, .	3.2	96
2	Ferromagnetic resonance in granular thin films. <i>Journal of Applied Physics</i> , 1999, 85, 5654-5656.	2.5	72
3	Correlation between the magnetorefractive effect, giant magnetoresistance, and optical properties of Co-Ag granular magnetic films. <i>Physical Review B</i> , 2002, 65, .	3.2	60
4	Temperature-controlled interlayer exchange coupling in strong/weak ferromagnetic multilayers: A thermomagnetic Curie switch. <i>Physical Review B</i> , 2012, 86, .	3.2	43
5	Room temperature tunneling magnetoresistance of electron beam deposited (Co <sub>50</sub> Fe <sub>50</sub> ) <sub>Tj</sub> ETQq1 1 0.784314 rgBT /Overloc 10017.	2.5	36
6	Magnetization-induced second- and third-harmonic generation in magnetic thin films and nanoparticles. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 138.	2.1	31
7	Optical and magneto-optical spectra of magnetic granular alloys. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 241, 45-51.	2.6	30
8	Optical and magneto-optical properties of (CoFe) <sub>x</sub> (HfO <sub>2</sub> ) <sub>1-x</sub> magnetic granular films. <i>Journal of Applied Physics</i> , 2000, 87, 1762-1768.	2.5	30
9	Infrared reflectance and magnetorefractive effects in metal-insulator CoFe-Al <sub>2</sub> O <sub>3</sub> granular films. <i>Journal of Applied Physics</i> , 2002, 91, 8795.	2.5	30
10	Structural and magnetic study of heterogeneous Co <sub>x</sub> Ag <sub>1-x</sub> films by resonance and magnetometric techniques. <i>Physical Review B</i> , 1999, 60, 12200-12206.	3.2	29
11	Electronic structure, optical and magnetic properties of Co <sub>2</sub> FeGe Heusler alloy films. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	27
12	Synthetic ferrimagnets with thermomagnetic switching. <i>Physical Review B</i> , 2014, 90, .	3.2	26
13	Effect of annealing and chemical composition on the giant magnetoresistance of electron beam deposited Co <sub>x</sub> Cu <sub>(100-x)</sub> (11 <sup>1/2</sup> x <sup>1/2</sup> 45) granular films. <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 186, 87-96.	2.86	23
14	Influence of co-evaporation technique on the structural and magnetic properties of CoCu granular films. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 196-197, 29-30.	2.3	23
15	Anisotropic magnetization relaxation in ferromagnetic multilayers with variable interlayer exchange coupling. <i>Physical Review B</i> , 2016, 94, .	3.2	21
16	Magneto-transport properties of CoFe-Al <sub>2</sub> O <sub>3</sub> granular films in the vicinity of the percolation threshold. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 242-245, 476-478.	2.3	20
17	Magnetic properties of heterogeneous (FeNi)-Ag films in a wide composition range. <i>Thin Solid Films</i> , 2003, 423, 218-223.	1.8	16
18	Optical and magneto-optical properties and magnetorefractive effect in metal-insulator CoFe-Al <sub>2</sub> O <sub>3</sub> granular films. <i>Journal of Applied Physics</i> , 2005, 98, 043705.	2.5	16

#	ARTICLE	IF	CITATIONS
19	GMR in co-evaporated Co—Ag granular thin films. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 40-42.	2.3	14
20	Exchange-induced phase separation in Ni—Cu films. Journal of Magnetism and Magnetic Materials, 2012, 324, 2131-2135.	2.3	13
21	Ferromagnetic resonance experiments in an obliquely deposited FeCo—Al <sub>2</sub> O <sub>3</sub> film system. Journal of Applied Physics, 2003, 94, 6631-6638.	2.5	12
22	Tunneling magnetoresistance in granular cermet films with particle size distribution. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1403-E1405.	2.3	12
23	Spin dynamics in a Curie-switch. Journal of Physics Condensed Matter, 2015, 27, 446003.	1.8	12
24	Giant magnetocaloric effect driven by indirect exchange in magnetic multilayers. Physical Review Materials, 2018, 2, .	2.4	12
25	Magnetization-induced optical third-harmonic generation in Co and Fe nanostructures. Physical Review B, 2006, 73, .	3.2	11
26	Magnetorefectance of ferromagnetic metal-insulator granular films with tunneling magnetoresistance. Physical Review B, 2009, 79, .	3.2	10
27	Strong plasmon enhancement of magneto-optical Kerr rotation in Co—AlO nanogranular films coated with gold nanoparticles. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 302.	2.1	9
28	Thermally induced antiferromagnetic exchange in magnetic multilayers. Physical Review B, 2017, 96, .	3.2	9
29	Influence of particle size distribution in cermet nanocomposites on magnetoresistance sensitivity. IEEE Transactions on Magnetics, 2002, 38, 2631-2633.	2.1	8
30	Study of optical and magneto-optical properties of CoFe—HfO <sub>2</sub> granular magnetic films. Physica E: Low-Dimensional Systems and Nanostructures, 1999, 4, 292-299.	2.7	6
31	Rotatable magnetic anisotropy in Si/SiO <sub>2</sub> /(Co <sub>2</sub> Fe) <sub>x</sub> /Ge <sub>1-x</sub> Heusler alloy films. Journal of Physics Condensed Matter, 2013, 25, 416003.	1.8	6
32	Magnetic anisotropy of epitaxial Co <sub>2</sub> Fe-Ge Heusler alloy films on MgO (100) substrates. AIP Advances, 2017, 7, 055831.	1.3	6
33	Thermal switching of indirect interlayer exchange in magnetic multilayers. Europhysics Letters, 2017, 118, 37006.	2.0	6
34	Magnetic ordering in granular system. Physics of the Solid State, 2000, 42, 126-131.	0.6	5
35	Magnetorefractive effect in (Co <sub>50</sub> Fe <sub>50</sub> ) <sub>x</sub> (Al <sub>2</sub> O <sub>3</sub> ) <sub>1-x</sub> granular films. Physics of the Solid State, 2003, 45, 1530-1536.	0.6	5
36	Spin relaxation in multilayers with synthetic ferrimagnets. Physical Review B, 2018, 98, .	3.2	5

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37	Isotropic FMR frequency enhancement in thin Py/FeMn bilayers under strong magnetic proximity effect. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 305003.	2.8	5
38	Effective fields in FeCo-Al/sub 2/O/sub 3/ granular films. <i>IEEE Transactions on Magnetism</i> , 2001, 37, 2219-2222.	2.1	4
39	Magnetic structure in FeCo-Al <sub>2</sub> O <sub>3</sub> granular films studied by the ferromagnetic resonance. <i>Physica Status Solidi A</i> , 2003, 196, 157-160.	1.7	4
40	Magnetization-induced third harmonic generation in magnetic nanogranular films: Correlation with giant magnetoresistance. <i>JETP Letters</i> , 2004, 79, 155-159.	1.4	4
41	Current-driven thermo-magnetic switching in magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	4
42	Magnetic Hysteresis in Nanostructures with Thermally Controlled RKKY Coupling. <i>Nanoscale Research Letters</i> , 2018, 13, 245.	5.7	4
43	Composition dependence of transport properties in Co <sub>1-x</sub> Cu granular films. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 196-197, 43-44.	2.3	3
44	FMR study of granular permalloy-silver films. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 196-197, 131-133.	2.3	3
45	Specific features of the reflection of infrared radiation by crystalline dielectrics in a magnetic field. <i>Journal of Experimental and Theoretical Physics</i> , 2004, 99, 1189-1192.	0.9	3
46	Ferromagnetic resonance and interlayer exchange coupling in magnetic multilayers with compositional gradients. <i>AIP Advances</i> , 2017, 7, 056307.	1.3	3
47	Effect of nanostructure layout on spin pumping phenomena in antiferromagnet/nonmagnetic metal/ferromagnet multilayered stacks. <i>AIP Advances</i> , 2017, 7, 056312.	1.3	3
48	Higher-order ferromagnetic resonances in periodic arrays of synthetic-antiferromagnet nanodisks. <i>Applied Physics Letters</i> , 2021, 119, 192402.	3.3	3
49	Magneto-optical and magnetoresistive properties of CoFe-MgO nanocomposite films. <i>Journal of Applied Physics</i> , 2010, 107, 09A947.	2.5	2
50	Ferromagnetic resonance in nanostructures with temperature-controlled interlayer interaction. <i>Low Temperature Physics</i> , 2016, 42, 761-767.	0.6	1
51	Spin-dependent scattering and magnetic proximity effect in Ni-doped Co/Cu multilayers as a probe of atomic magnetism. <i>Journal of Applied Physics</i> , 2019, 125, 023907.	2.5	1
52	Spin-current dissipation in a thin-film bilayer ferromagnet/antiferromagnet. <i>Low Temperature Physics</i> , 2020, 46, 813-819.	0.6	1
53	Temperature and thickness dependent magnetostatic properties of [Fe/Py]/FeMn/Py multilayers. <i>Low Temperature Physics</i> , 2021, 47, 483-487.	0.6	1
54	Nonlinear magneto-optics of nanogranular films. <i>Materials Research Society Symposia Proceedings</i> , 2004, 834, 227.	0.1	0

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55	Magnetization-Induced Third-Harmonic Generation in Nanostructures and Thin Films. Physics of the Solid State, 2005, 47, 153.	0.6	0
56	Cubic and quadratic nonlinear magneto-optical Kerr effect in magnetic nanogranular films. , 2006, , .		0
57	Magnetoacoustic Resonance Research of $\text{Co}_x(\text{Al}_2\text{O}_3)_{1-x}$ Nanogranular Films in the Vicinity of Magnetic Phase Transition. , 2007, , .		0
58	Ferromagnetic resonance evidence of spinodal decomposition of $\text{Ni}_{1-x}\text{Cu}_x$ (0.5 < x < 1) alloy films. Thin Solid Films, 2016, 603, 424-427.	1.8	0
59	Magnetic and transport properties of $\text{NiMnIn}$ Heusler alloy films: the effect of structural disorder. European Physical Journal B, 2021, 94, 1.	1.5	0
60	Investigation of Structural, Magnetic and Transport Properties of Granular $\text{Co}_x\text{Cu}_{1-x}$ Films. , 1998, , 519-524.		0
61	Effect of Magnetic and Nonmagnetic Layers Parameters on Dissipation Processes in Multilayer Nanostructures with Antiferromagnetic Component. Journal of Nano- and Electronic Physics, 2017, 9, 03001-1-03001-6.	0.5	0
62	Influence of Nanosize Effect and Non-Magnetic Dilution on Interlayer Exchange Coupling in $\text{Fe}/\text{Cr}$ Nanostructures. Ukrainian Journal of Physics, 2020, 65, 898.	0.2	0